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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| | | | EXAMINER SHEDRICK, CHARLES TERRELL | |
| | | | ART UNIT 2687 | PAPER NUMBER |

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/659,952 | ADDY ET AL. | |
| | Examiner | Art Unit | |
| | Charles Shedrick | 2687 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-32 is/are rejected.
- 7) ☒ Claim(s) 24,31 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

Response to Arguments

1. Applicant's arguments with respect to claims 21-32 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

2. Claim 24 is objected to because of the following informalities: New claim is listed as an amended claim. Since claim 24 is a new claim it should be titled accordingly. Appropriate correction is required.

3. Claim 31 is objected to because of the following informalities: **Claim 31** is dependent upon a canceled **claim 4**. For the purpose of examination claim 31 is examined based upon the dependence of new independent claim 28 appropriate correction is required.

Double Patenting

4. Applicant is advised that should **claim 23** be found allowable, **claim 27** will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21-22,24-26,and 28-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Pildner et al. (US Patent 5,625,338)** in view of **Haugli et al. (US Patent # 5,991,279)**.

Consider **claim 21 and 28**, Pildner et al. clearly show and disclose a security alarm system (i.e., see figure 1) comprising: at least one battery **90** (i.e., see **figure 1 and col. 6 lines**

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29-30) powered wireless keypad 16 (i.e., see figure 1 and col.3 lines 1-25) comprising a Radio Frequency (RF) receiver 20 (i.e., see figure 1 and col.3 lines 1-25) and a reduced display module 23 (i.e., see figure 1 and col.3 lines 1-25); and an AC powered control panel (i.e., see figure 1 and col.3 lines 1-25) comprising an RF transmitter 8 (i.e., see figure 1 and col.3 lines 1-25) comprising a means for transmitting (i.e., see figure 1 and col.3 lines 1-25).

However, Pildner et al. does not specifically disclose transmitting a first periodic sync signals which are received and used by the RF receiver to maintain proper synchronization of the receiver with the RF transmitter during second periodic wake up windows for possible transmissions of data, and means for transmitting data during at least some of the second periodic wake up windows for the transmission of data; wherein the receiver wakes periodically to receive first periodic sync signals which are used by the receiver to maintain the receiver properly synchronized with the transmitter during the second periodic wake up windows for possible transmissions of data from the transmitter; and wherein the receiver wakes periodically for a short duration at the start of each second periodic wake up window to receive a possible transmission of data, and if no transmission is received goes back to sleep, and if a transmission is received stays awake to receive the full transmission of data, such that the average current consumed by the battery powered receiver to wake periodically to receive the first periodic sync signals to maintain synchronization and to wake periodically to listen for the possible second periodic transmissions of data is less than the average current required to maintain the receiver awake continuously.

However, in the same field of endeavor Haughli et al. teaches a synchronizing method between a Radio frequency (RF) transmitter and a battery powered RF receiver wherein: the

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transmitter (FIG. 3, transmitter blocks connected to antenna 80), transmits first periodic sync signals which are received and used by the receiver to maintain proper synchronization of the receiver with the transmitter during second periodic wake up windows for possible transmissions of data (**column 2, lines 15-18, column 22, lines 60-63, and column 16, lines 56-60**); the transmitter transmits data during at least some of the second periodic wake up windows for the transmission of data (**column 16, lines 45-47, and abstract**); the receiver wakes periodically to receive the first periodic sync signals which are used by the receiver to maintain the receiver properly synchronized with the transmitter during the second periodic wake up windows for possible transmissions of data from the transmitter (**column 16, lines 45-61**); and wherein the receiver wakes periodically for a short duration at the start of each second periodic wake up window to receive a possible transmission of data (**column 16, lines 45-47**), and if no transmission is received goes back to sleep, and if a transmission is received stays awake to receive the full transmission of data (**column 17, lines 38-47 - inherently if no transmission is addressed to the terminal, it goes back to sleep**), such that the average current consumed by the battery powered receiver to wake periodically to receive the first periodic sync signals to maintain synchronization and to wake periodically to listen for the possible second periodic transmissions of data is less than the average current required to maintain the receiver awake continuously (**column 1, line 56-column 2, line 12 - inherently the average current consumed by the battery powered receiver to wake periodically to receive the first periodic sync signals to maintain synchronization and to wake periodically to listen for the possible second periodic transmissions of data is less than the average current required to maintain the receiver awake continuously**).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Pildner et al. to include to teachings of Haugli et al. for the purpose of power conservation and synchronization.

Consider **claims 22 and 29 as applied to claims 21 and 28 respectively**, Pildner et al. clearly disclose the claimed invention except wherein the transmitter further comprises means for transmitting the first periodic sync signals over short durations and with a periodicity such that a total of all of the first periodic sync signals over a period of one hour are equal to or less than a total of 2 second on-air time per hour.

However, In the same field of endeavor Haugli et al. teaches wherein the transmitter further comprises means for transmitting the first periodic sync signals over short durations and with a periodicity such that a total of all of the first periodic sync signals over a period of one hour are equal to or less than a total of 2 second on-air time per hour (**column 16, line 62 column 7 line 10**).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Pildner et al. to include to teachings of Haugli et al. for the purpose of power conservation and synchronization.

Consider **claim 25 and 31 as applied to claims 21 and 28 respectively**, Pildner et al. clearly disclose the claimed invention

However, Haugli et al. clearly show and disclose wherein the receiver further comprises a primary battery cell of less than 2 amp-hour capacity which operates for more than 3 years before the battery is discharged (**column 5 lines 13-25**).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Pildner et al. to include the teachings of Haugli et al. for the purpose of power conservation and efficiency.

Consider claims 26 and 32 as applied to claims 21 and 28 respectively, Pildner et al. as modified by Haugli et al. clearly show and disclose wherein the transmitter transmits periodic RF messages comprising the present status of the security alarm system to the reduced display module to provide a display of the current status of the security alarm system (**col. 5 lines 10-20**).

Claims 23, 27, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Pildner et al. (US Patent 5,625,338)** in view of Haugli et al. (**US Patent # 5,991,279**) and further in view of Gibbons et al. (**US Pub. No.: 2001/0053710 A1**)

Consider claims 23, 27, and 30 and as applied to claims 21 and 28 respectively, Pildner et al. as modified by Haugli et al. clearly disclose the claimed invention except wherein the means for transmitting during the second periodic wake up windows transmits with a periodicity of 3 seconds, such that the average response time of the battery powered receiver to changes reflected by the transmissions of data is less than 1.5 seconds on average and no greater than 3 seconds in the worst case.

However, Gibbons teaches such limitations in **column 6, paragraph (0065)** (in combination, it is inherently understood that transmission of data is no greater than 3 seconds).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of the feature of the periodicity of the second periodic wake up windows is 3 seconds, such that the average response time of the battery powered

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receiver to changes reflected by the transmissions of data is less than 1.5 seconds on average and no greater than 3 seconds in the worst case, as taught by Gibbons, in view of Pildner et al. as modified by Haugli et al., in order to provide a reduced power operating mode for a wireless communication system.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Pildner et al. (US Patent 5,625,338)** in view of Haugli et al. (**US Patent # 5,991,279**) and further in view of Schreder et al. (**US Patent No.: 5,107,488**).

Consider claim 24 and as applied to claim 21 above, Pildner et al. as modified by Haugli et al. clearly disclose the claimed invention except for specifically disclosing wherein the transmitter and receiver each further comprise clocks, the clocks in the transmitter and receiver having no more than a 2millisecond time shift relative to each other.

However, in the same field of endeavor, Schreder et al. disclose wherein the transmitter and receiver each further comprise clocks (i.e., see figure 1 ETR and STR), the clocks in the transmitter and receiver having no more than a 2millisecond time shift relative to each other (i.e., the time shifts can be artificially produced to coincide)(**col. 2 lines 12 –18**).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Pildner et al. as modified by Haugli to include the transmitter and receiver each further comprise clocks, the clocks in the transmitter and receiver having a minimal time shift relative to each other for the purpose of synchronization and signal timing.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Shedrick whose telephone number is (571)-272-8621. The examiner can normally be reached on Monday thru Friday 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kincaid Lester can be reached on (571)-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles Shedrick
AU 2687
January 5, 2006



NICK CORSARO
PRIMARY EXAMINER